# Anil Kumar Burri

Embedded Engineer

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## Objective

Seeking a challenging role as a embedded software engineer where i can apply my programming, debugging and development skills to build efficient and reliable embedded system.

## Professional Experience

**Embedded Software,** *Marelli* 04/2025 – Present
Bengaluru, karnataka

- Embedded Engineer with 1 year of experience at Marelli, working on the Stellantis Cluster Project (DTDJ).
- The Real Time Scenarios ODO Retained Test , Vehicle Scenario , Black Screen Test and PRND.
- Diagnostics & Debugging**:** Leveraged **CANoe** and **CANalyzer** to reproduce and resolve **DTC**-related customer issues, utilizing a deep understanding of **UDS (**Unified Diagnostic Services**)**.
- Hands-on experience with automotive communication protocols **(CAN,CAN_FD, LIN, UDS,DBC)**.
- Agile Collaboration**:** Utilized **JIRA** for defect tracking and lifecycle management within a fast-paced automotive development environment.
- In Automation Worked On Test case Writing Using C# and Testing
- Software Flashing (MCU and SOC)

## Skills

**Languages:**
C, Embedded C,C++,C#

**Microcontrollers:**
LPC2129,Basics of STM32F446RE

**Communication Protocols:**
CAN,SPI, I2C, UART, ADC, TIMERS.

**Operating Systems:**
Microsoft windows ,Linux and Basics of RTOS.

**Software Tools:**
Keil IDE, CANoe, CANanlyzer, Jira, IBM DOORs, CDD

**Version Control:**
Git, GitHub

## Education

**B.Tech,** *Sree Rama Engineering College* 01/2021 – 04/2024
Electronics & Communications Engineering with 8.11(CGPA) Tirupati, Karnataka

**Board of Intermediate Education,** *Shirdi Sai Junior College.* 06/2018 – 03/2020
MPC with 8.88 Tirupati , Andhra Pradesh

**Board of Secondary Education,** *ZP High School*
SSC with 8.7(CGPA)

## Professional Training

**Advanced Embedded Systems** 05/2024 – 01/2025
Completed a 8-month advanced course in Embedded Systems at Vector India. Bengaluru, Karnataka

## Projects

**Vehicle controlling system using CAN :** 12/2024 – 01/2025
This project utilizes the CAN protocol to control the front light control module. Using the body control module, data is transmitted to turn the headlights, left indicator, and right indicator on or off. The project is implemented on the LPC2129 microcontroller.

**Interrupt-Driven Bluetooth Home Automation**
Developed a home automation system using an LPC2129 microcontroller, an HC-05 Bluetooth module, and a combination of UART and external interrupts.

**Student Database Application using C and Data Structures**
Developed and deployed a student database using C, leveraging data structures such as arrays and linked lists for efficient data storage and retrieval.

**Makefile for C/C++ Build Automation**
Created a Makefile to automate the build process of a simple C/ C++ program.

## Hobies

- Cricket
- Singing

## Declaration

I hereby declare that the information provided above is true to the best of my knowledge and belief.